Gulf of Mexico Harmful Algal Bloom Bulletin

17 September 2007

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: September 10, 2007

Conditions Report

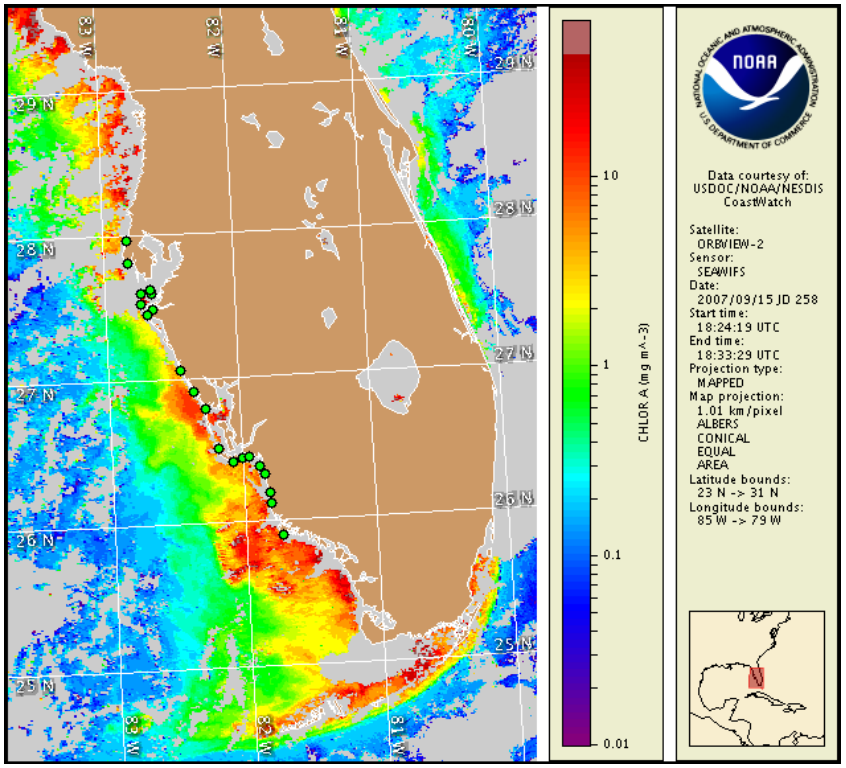
There is currently no indication of harmful algal bloom presence alongshore southwest Florida. No impacts are expected at the coast in any Florida counties today through Thursday, September 20.

Analysis

Very low concentrations of *Karenia brevis* were identified last week in patches offshore northern Sarasota, Charlotte, and southern Lee Counties (Very Low a), as well as offshore northern Collier County (Very Low b) (FWRI 9/10-13). Chlorophyll levels remain elevated along much of the coastline due to confirmed *Trichodesmium* and other non-harmful algal species. Elevated chlorophyll patches, up to 2 μg/L, are also visible in the following locations nearby the recently identified *K. brevis* concentrations: offshore Charlotte County at 26°45.6'N, 82°41.4'W and 26°53.3'N, 82°59.5'W; offshore Lee County at 26°26.9'N, 82°40'W; and southwest of Sanibel Island at 26°22.3'N, 82°12.1'W. Surface and subsurface sampling is recommended.

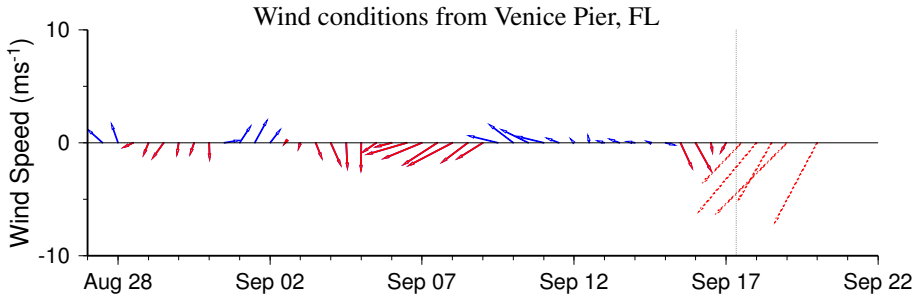
Winds are forecasted to remain offshore (northeasterly and southeasterly) through Thursday. Although impacts are not expected at the coast at this time, conditions throughout the week are upwelling favorable and may increase the potential for *K. brevis* appearance at the coast, particularly in southern Lee and central Sarasota Counties.

~Fisher, Fenstermacher



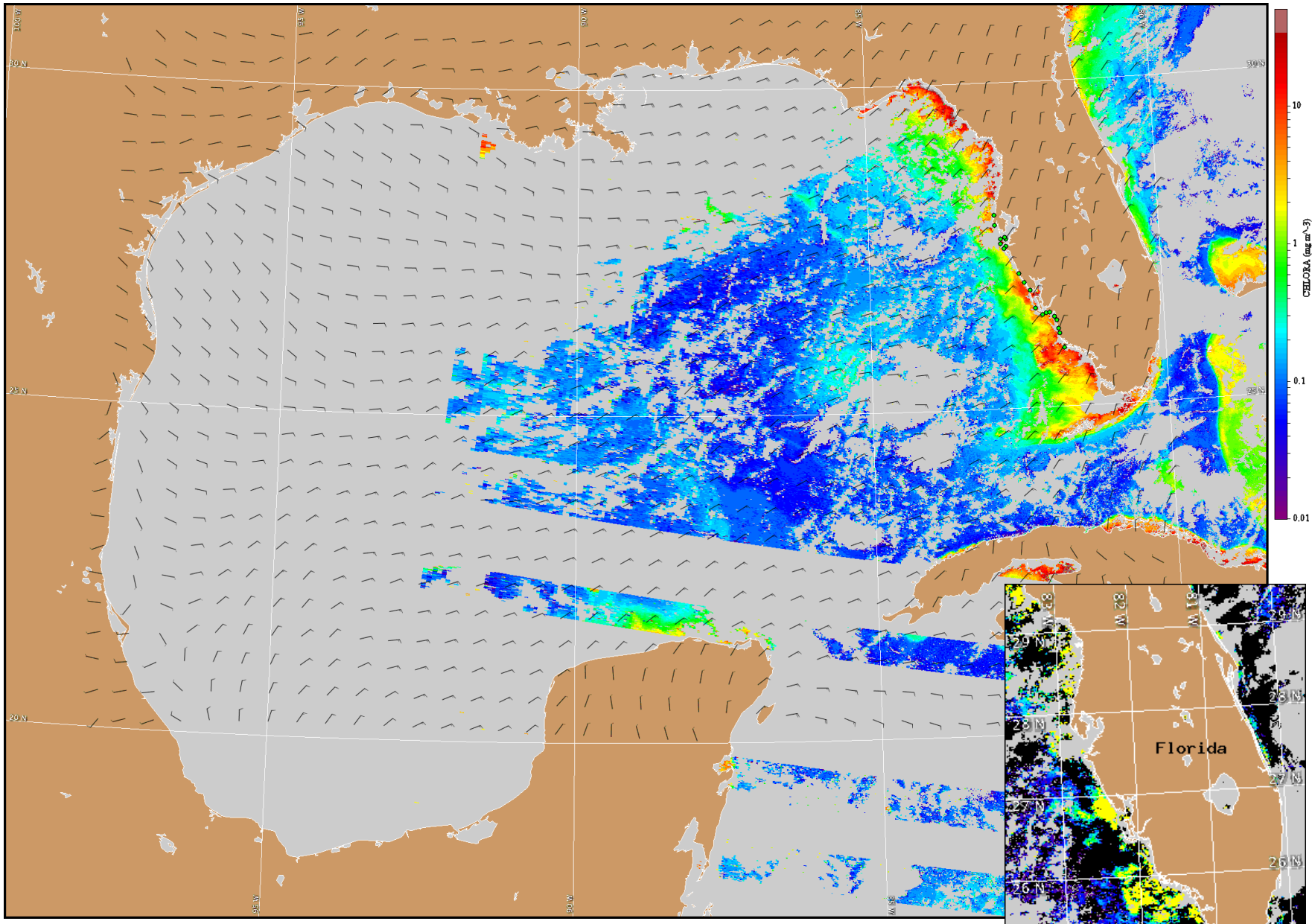
Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from September 10 to 12 shown as red (high), orange (medium), yellow (low b), brown (low a), blue(very low b), purple (very low a), pink (present), and green (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide:

http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf

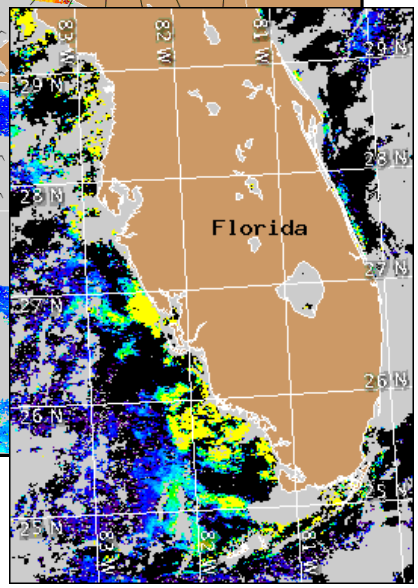


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

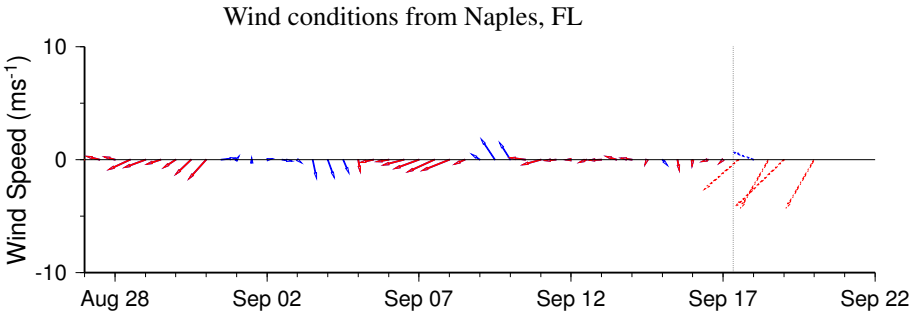
SW Florida: Northeasterly winds today (10-15kts, 5-8m/s) will strengthen tonight through Tuesday night up to 20kts (10 m/s). Northeasterly to northerly winds Wednesday (10-15kts). Southeasterly winds expected Thursday (15-20kts, 8-10m/s).



Satellite chlorophyll image and forecast winds for September 18, 2007 12Z with Cell concentration sampling data from September 10 to 12 shown as red (high), orange (medium), yellow (low b), brown (low a), blue(very low b), purple (very low a), pink (present), and green (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide: http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf



Verifi ed and suspected HAB areas shown in red. Other areas of high chlorophyll concentration shown in yellow (see p. 1 analysis for interpretation).


Wind conditions from Naples, FL
Wind Speed (ms-1)
10
0
-10
Aug 28
Sep 02
Sep 07
Sep 12
Sep 17
Sep 22